

=> d que stat l3

L1 3 SEA FILE=REGISTRY ABB=ON (188575-95-3 OR 199807-23-3 OR
188576-02-5)/RN
L2 5 SEA FILE=HCAPLUS ABB=ON L1
L3 5 SEA FILE=HCAPLUS ABB=ON L2 AND (?CANCER? OR ?CELL?(W)?PROLIF?
OR ?NEOPLASM? OR ?TUMOR? OR ?TUMOUR? OR ?CARCIN? OR ?ANGIOGENES
IS? OR ?RETIN?(W)?ANGIOGENESIS? OR ?ARTHRITIS?)

=> d ibib abs hitstr l3 1-5

L3 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:269873 HCAPLUS
DOCUMENT NUMBER: 140:297473
TITLE: Methods for inhibition of **angiogenesis** using
 $\alpha\text{v}\beta 3$ integrin antagonists
INVENTOR(S): Brooks, Peter C.; Cheresh, David A.
PATENT ASSIGNEE(S): The Scripps Research Institute, USA
SOURCE: U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U.S.
Pat. Appl. 2003 176,334.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004063790	A1	20040401	US 2003-402212	20030328
WO 9745137	A1	19971204	WO 1997-US9158	19970530
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 6500924	B1	20021231	US 1999-194468	19990323
US 2003176334	A1	20030918	US 2002-115223	20020402
PRIORITY APPLN. INFO.:			US 1996-15869P	P 19960531
			US 1996-18773P	P 19960531
			WO 1997-US9158	W 19970530
			US 1999-194468	A1 19990323
			US 2002-115223	A2 20020402
			US 1994-210715	A2 19940318
			US 1994-366665	A2 19941230
			US 1996-18733P	P 19960531

OTHER SOURCE(S): MARPAT 140:297473

AB The invention describes methods for inhibition **angiogenesis** in tissues using organic peptidomimetic $\alpha\text{v}\beta 3$ antagonists, and particularly for inhibiting **angiogenesis** in inflamed tissues and in **tumor** tissues and metastases using therapeutic compns. containing $\alpha\text{v}\beta 3$ antagonists. The antagonists are organic compds. having a basic group and an acidic group spaced from one another by a distance in the range of about 10 Angstroms to about 100 Angstroms, as described in detail herein.

IT 199807-23-3P

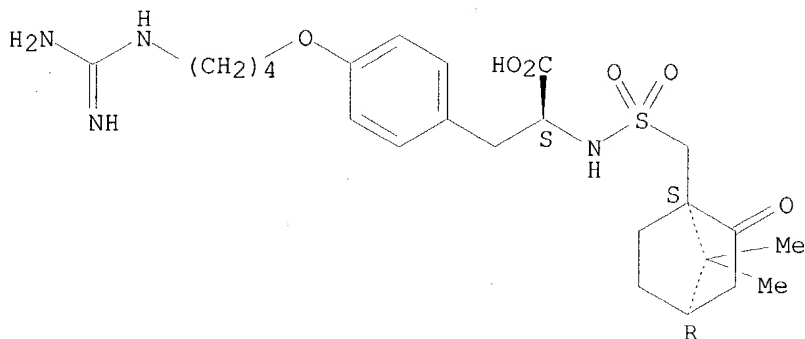
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(methods for inhibition of **angiogenesis** using $\alpha v \beta 3$
integrin antagonists)

RN 199807-23-3 HCAPLUS

CN L-Tyrosine, O-[4-[(aminoiminomethyl)amino]butyl]-N-[[[(1S,4R)-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 188575-95-3P 188576-02-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

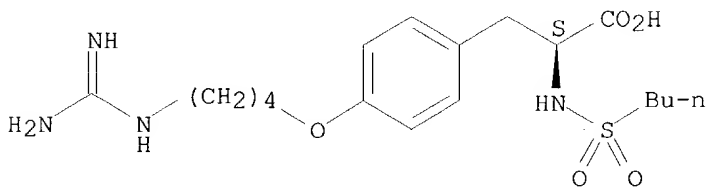
(methods for inhibition of **angiogenesis** using $\alpha v \beta 3$
integrin antagonists)

RN 188575-95-3 HCAPLUS

CN L-Tyrosine, O-[4-[(aminoiminomethyl)amino]butyl]-N-(butylsulfonyl)- (9CI) (CA INDEX NAME)

Compound 7

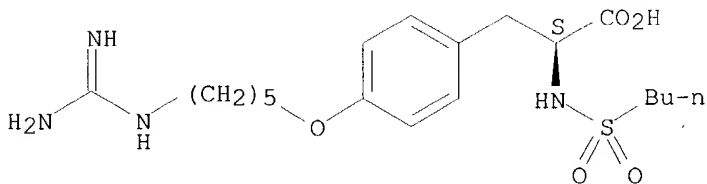
Absolute stereochemistry.



RN 188576-02-5 HCAPLUS

CN L-Tyrosine, O-[5-[(aminoiminomethyl)amino]pentyl]-N-(butylsulfonyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:805756 HCAPLUS
 DOCUMENT NUMBER: 128:48501
 TITLE: Preparation of cyclopeptides, sulfonyltyrosine derivatives, and monoclonal antibodies as **antitumor** agents and $\alpha\beta 5$ mediated **angiogenesis** inhibitors for treatment of eye diseases
 INVENTOR(S): Brooks, Peter; Cheresh, David A.; Friedlander, Martin
 PATENT ASSIGNEE(S): Scripps Research Institute, USA; Brooks, Peter; Cheresh, David A.; Friedlander, Martin
 SOURCE: PCT Int. Appl., 121 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9745447	A1	19971204	WO 1997-US9099	19970530
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9732183	A1	19980105	AU 1997-32183	19970530
AU 738782	B2	20010927		
EP 907661	A1	19990414	EP 1997-927814	19970530
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
BR 9709514	A	19990810	BR 1997-9514	19970530
CN 1226254	A	19990818	CN 1997-196818	19970530
CN 1226172	A	19990818	CN 1997-196822	19970530
JP 2002515036	T2	20020521	JP 1997-542914	19970530
RU 2195312	C2	20021227	RU 1998-123834	19970530
NO 9805575	A	19990201	NO 1998-5575	19981127
KR 2000016301	A	20000325	KR 1998-709874	19981130
KR 2000016302	A	20000325	KR 1998-709875	19981130
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			US 1996-18733P	P 19960531
			WO 1997-US9099	W 19970530

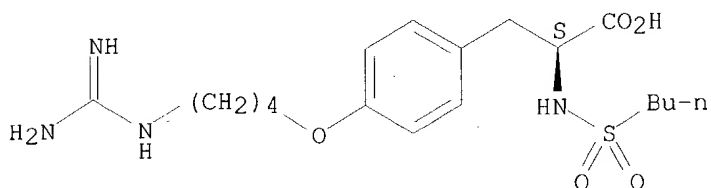
AB The present invention describes methods for inhibiting **angiogenesis** in tissues using vitronectin $\alpha\beta 5$ antagonists. The $\alpha\beta 5$ -mediated **angiogenesis** is correlated with exposure to cytokines including vascular endothelial growth factor, transforming growth factor- α and epidermal growth factor. Inhibition of $\alpha\beta 5$ -mediated **angiogenesis** is particularly preferred in vascular endothelial ocular neovascular diseases, in **tumor** growth and in inflammatory conditions, using therapeutic compns. containing $\alpha\beta 5$ antagonists. Thus, cyclopeptide cyclo(Arg-Asp-Gly-D-Phe-N-MeVal) (I) was prepared by standard solid-phase methods using 9-fluorenylmethoxycarbonyl (Fmoc) chemical I and related RGD cyclopeptides, as well as N-sulfonyl-O-guanidinyllalkyltyrosine derivs., monoclonal antibodies, and synthetic matrix metalloproteins peptides and fusion proteins were tested for **angiogenesis** inhibition in a number of models, including an in vivo rabbit eye model.
 IT 188575-95-3P 188576-02-5P 199807-23-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of sulfonyltyrosine derivs. as $\alpha\text{v}\beta 5$ mediated **angiogenesis** inhibitors for treatment of eye diseases)

RN 188575-95-3 HCAPLUS

CN L-Tyrosine, O-[4-[(aminoiminomethyl)amino]butyl]-N-(butylsulfonyl)- (9CI)
 (CA INDEX NAME)

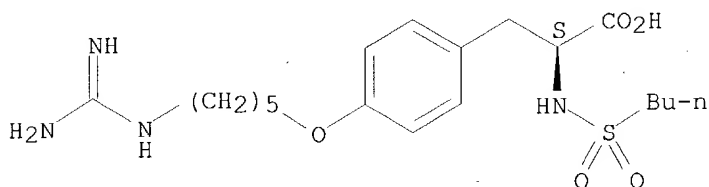
Absolute stereochemistry.



RN 188576-02-5 HCAPLUS

CN L-Tyrosine, O-[5-[(aminoiminomethyl)amino]pentyl]-N-(butylsulfonyl)- (9CI)
 (CA INDEX NAME)

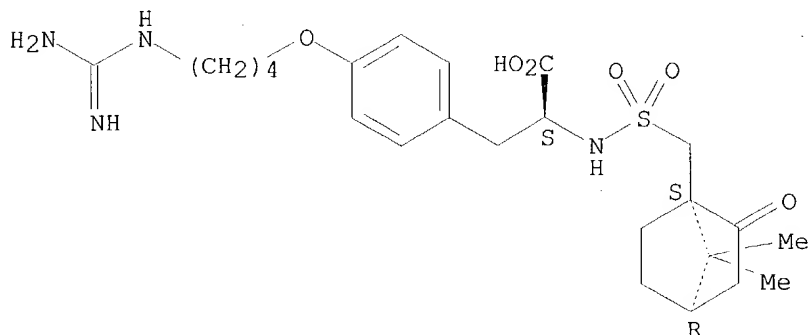
Absolute stereochemistry.



RN 199807-23-3 HCAPLUS

CN L-Tyrosine, O-[4-[(aminoiminomethyl)amino]butyl]-N-[[[(1S,4R)-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:803827 HCAPLUS

DOCUMENT NUMBER: 128:48497

TITLE: Preparation of cyclopeptides, fusion proteins,

monoclonal antibodies, and sulfonyltyrosine derivs. as
 $\alpha\text{v}\beta 5$ mediated **angiogenesis**
inhibitors and **antitumor** agents
Brooks, Peter; Cheresh, David A.

INVENTOR(S):

PATENT ASSIGNEE(S):

Scripps Research Institute, USA; Brooks, Peter;
Cheresh, David A.

SOURCE:

PCT Int. Appl., 234 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION: ✓

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9745137	A1	19971204	WO 1997-US9158	19970530
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9732893	A1	19980105	AU 1997-32893	19970530
AU 733303	B2	20010510		
CN 1226254	A	19990818	CN 1997-196818	19970530
CN 1226172	A	19990818	CN 1997-196822	19970530
EP 951295	A1	19991027	EP 1997-928698	19970530
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2000516201	T2	20001205	JP 1997-542941	19970530
RU 2194528	C2	20021220	RU 1998-123833	19970530
NO 9805574	A	19990201	NO 1998-5574	19981127
KR 2000016301	A	20000325	KR 1998-709874	19981130
KR 2000016302	A	20000325	KR 1998-709875	19981130
US 6500924	B1	20021231	US 1999-194468	19990323
US 2003176334	A1	20030918	US 2002-115223	20020402
US 2004063790	A1	20040401	US 2003-402212	20030328

PRIORITY APPLN. INFO.:

US 1996-15869P P 19960531
US 1996-18733P P 19960531
US 1994-210715 A2 19940318
US 1994-366665 A2 19941230
US 1996-18773P P 19960531
WO 1997-US9158 W 19970530
US 1999-194468 A1 19990323
US 2002-115223 A2 20020402

AB The present invention describes methods for inhibiting **angiogenesis** in tissues using vitronectin $\alpha\text{v}\beta 5$ antagonists. The $\alpha\text{v}\beta 5$ -mediated **angiogenesis** is correlated with exposure to cytokines including vascular endothelial growth factor, transforming growth factor- α and epidermal growth factor. Inhibition of $\alpha\text{v}\beta 5$ -mediated **angiogenesis** is particularly preferred in vascular endothelial ocular neovascular diseases, in **tumor** growth and in inflammatory conditions, using therapeutic comps. containing $\alpha\text{v}\beta 5$ antagonists. Thus, cyclopeptide cyclo(Arg-Asp-Gly-D-Phe-N-MeVal) (I) was prepared by standard solid-phase methods using 9-fluorenylmethoxycarbonyl (Fmoc) chemical I and related RGD cyclopeptides, as well as N-sulfonyl-O-guanidinyllalkyltyrosine derivs., monoclonal antibodies, and synthetic matrix metalloproteins

peptides and fusion proteins were tested for **angiogenesis** inhibition in a number of **antitumor** models.

IT 188575-95-3P 188576-02-5P 199807-23-3P

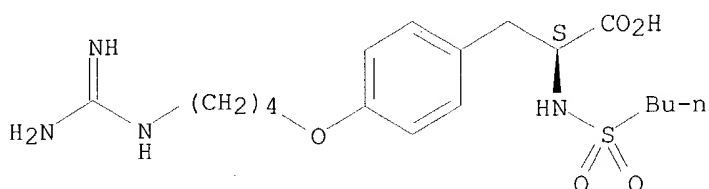
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of sulfonyltyrosine derivs. as $\alpha v\beta 5$ mediated **angiogenesis** inhibitors and **antitumor** agents)

RN 188575-95-3 HCAPLUS

CN L-Tyrosine, O-[4-[(aminoiminomethyl)amino]butyl]-N-(butylsulfonyl)- (9CI)
(CA INDEX NAME)

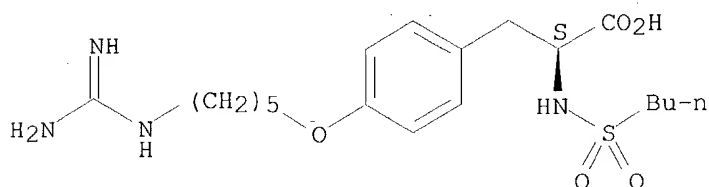
Absolute stereochemistry.



RN 188576-02-5 HCAPLUS

CN L-Tyrosine, O-[5-[(aminoiminomethyl)amino]pentyl]-N-(butylsulfonyl)- (9CI)
(CA INDEX NAME)

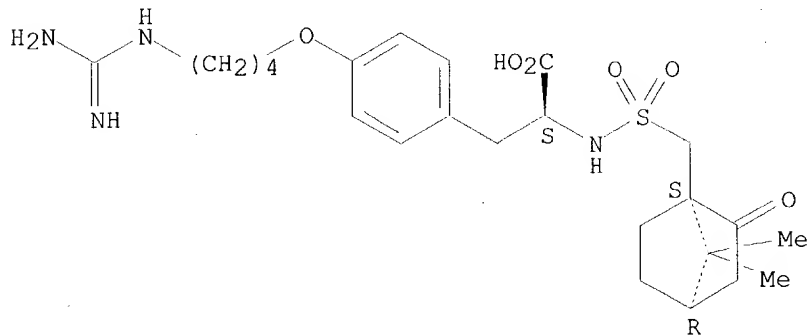
Absolute stereochemistry.



RN 199807-23-3 HCAPLUS

CN L-Tyrosine, O-[4-[(aminoiminomethyl)amino]butyl]-N-[[[(1S,4R)-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methyl]sulfonyl]- (9CI) (CA INDEX NAME)

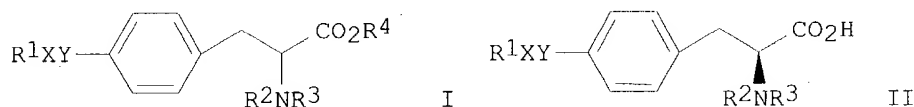
Absolute stereochemistry.



L3 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:467800 HCAPLUS
 DOCUMENT NUMBER: 127:95612
 TITLE: Preparation of tyrosine-derivative α V-integrin inhibitors
 INVENTOR(S): Diefenbach, Beate; Fittschen, Claus; Gante, Joachim; Goodman, Simon; Wiesner, Matthias; Rippmann, Friedrich
 PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
 SOURCE: Ger. Offen., 16 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19548709	A1	19970703	DE 1995-19548709	19951223
CA 2241149	AA	19970703	CA 1996-2241149	19961216
WO 9723451	A1	19970703	WO 1996-EP5646	19961216
W: AU, BR, CA, CN, CZ, FI, HU, JP, KR, MX, NO, PL, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9713016	A1	19970717	AU 1997-13016	19961216
EP 879227	A1	19981125	EP 1996-944578	19961216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1205687	A	19990120	CN 1996-199305	19961216
BR 9612201	A	19990713	BR 1996-12201	19961216
JP 2000502664	T2	20000307	JP 1997-523282	19961216
ZA 9610725	A	19970626	ZA 1996-10725	19961219
NO 9802907	A	19980622	NO 1998-2907	19980622
PRIORITY APPLN. INFO.:		DE 1995-19548709 A 19951223		
		WO 1996-EP5646 W 19961216		
OTHER SOURCE(S):		MARPAT 127:95612		
GI				



AB The title compds. [I; R1 = H, CN, N3, NH2, C(:NH), H2N(C:NH)NH; R2, R3 = H, A, ASO2, 10-(campheryl)SO2, CO2A, amino-blocking group, etc.; A, R4 = H, alkyl, PhCH2; X = alkylene, 1,4-piperidiny] Y = O, CONH, C.tplbond.C], useful as α V-integrin inhibitors, are prepared and I-containing formulations presented. Thus, II [R1 = H2NC(:NH)NH, R2 = H, R3 = BuSO2, X = butylene, Y = O] was prepared and demonstrated a IC50 of 0.4 nM against the binding of vitronectin to the α V β 3 receptor.

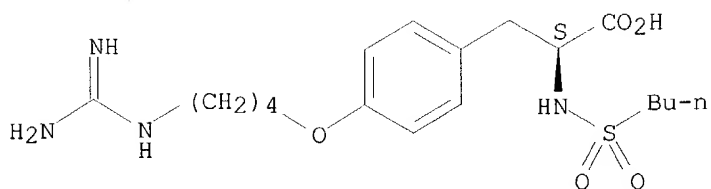
IT 188575-95-3P 188576-02-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of tyrosine-derivative α V-integrin inhibitors)

RN 188575-95-3 HCAPLUS

CN L-Tyrosine, O-[4-[(aminoiminomethyl)amino]butyl]-N-(butylsulfonyl)- (9CI)
 (CA INDEX NAME)

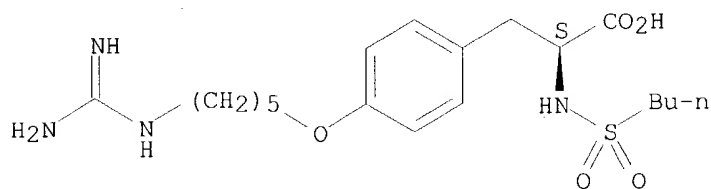
Absolute stereochemistry.



RN 188576-02-5 HCAPLUS

CN L-Tyrosine, O-[5-[(aminoiminomethyl)amino]pentyl]-N-(butylsulfonyl)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:265569 HCAPLUS

DOCUMENT NUMBER: 126:251416

TITLE: Preparation of tyrosine derivatives as compounds
useful for inhibition of vitronectin $\alpha v \beta 5$
integrin-mediated **angiogenesis**

INVENTOR(S): Brooks, Peter; Cheresch, David A.; Friedlander, Martin

PATENT ASSIGNEE(S): Scripps Research Institute, USA; Brooks, Peter;
Cheresch, David A.; Friedlander, Martin

SOURCE: PCT Int. Appl., 126 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

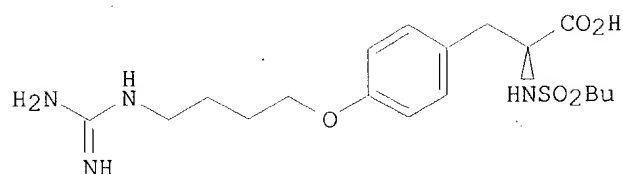
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 9706791	A1	19970227	WO 1996-US13194	19960813
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RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM				
AU 9668466	A1	19970312	AU 1996-68466	19960813
AU 726793	B2	20001123		
EP 844874	A1	19980603	EP 1996-928868	19960813
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI				
CN 1198667	A	19981111	CN 1996-197429	19960813
JP 11511171	T2	19990928	JP 1996-509460	19960813
RU 2214268	C2	20031020	RU 1998-104128	19960813
ZA 9606886	A	19970424	ZA 1996-6886	19960814

NO 9800622 A 19980407 NO 1998-622 19980213
 PRIORITY APPLN. INFO.: US 1995-514799 A 19950814
 WO 1996-US13194 W 19960813

GI



AB The present invention describes methods for inhibiting **angiogenesis** in tissues using vitronectin $\alpha\text{v}\beta 5$ antagonists. The $\alpha\text{v}\beta 5$ -mediated **angiogenesis** is correlated with exposure to cytokines including vascular endothelial growth factor, transforming growth factor- α and epidermal growth factor. Inhibition of $\alpha\text{v}\beta 5$ -mediated **angiogenesis** is particularly preferred in vascular endothelial ocular neovascular diseases, in **tumor** growth and in inflammatory conditions, using therapeutic compns. containing $\alpha\text{v}\beta 5$ antagonists. Thus, Boc-Tyr-OCH₂Ph (preparation given) was converted in 6 steps into guanidino derivative I. I and related guanidine and amidine derivs. were useful as **angiogenesis** inhibitors.

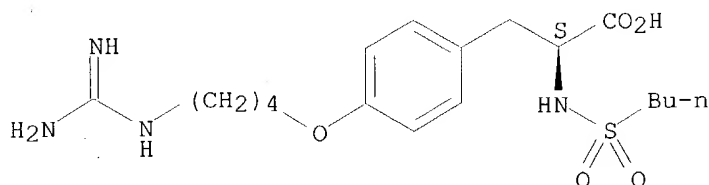
IT 188575-95-3P 188576-02-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of tyrosine derivs. as compds. useful for inhibition of vitronectin $\alpha\text{v}\beta 5$ integrin-mediated **angiogenesis**)

RN 188575-95-3 HCAPLUS

CN L-Tyrosine, O-[4-[(aminoiminomethyl)amino]butyl]-N-(butylsulfonyl)- (9CI)
 (CA INDEX NAME)

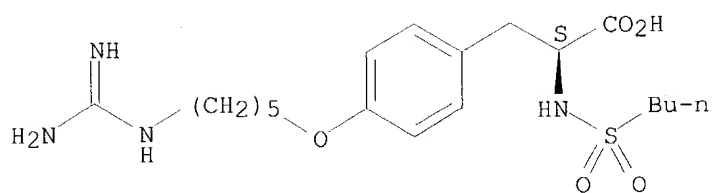
Absolute stereochemistry.



RN 188576-02-5 HCAPLUS

CN L-Tyrosine, O-[5-[(aminoiminomethyl)amino]pentyl]-N-(butylsulfonyl)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



=> d his ful

L1 FILE 'REGISTRY' ENTERED AT 11:24:08 ON 22 JUN 2004
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Compd 7410 Compd 12 Compd 14*
 L2 FILE 'HCAPLUS' ENTERED AT 11:26:16 ON 22 JUN 2004
 5 SEA ABB=ON L1
 L3 5 SEA ABB=ON L2 AND (?CANCER? OR ?CELL?(W)?PROLIF? OR ?NEOPLASM?
 OR ?TUMOR? OR ?TUMOUR? OR ?CARCIN? OR ?ANGIOGENESIS? OR
 ?RETIN?(W)?ANGIOGENESIS? OR ?ARTHRITIS?) *5 hits in GA Plus - attached*
 L4 FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS' ENTERED AT 11:28:26 ON
 22 JUN 2004
 0 SEA ABB=ON L3 *0 hits in other databases*
 FILE 'REGISTRY' ENTERED AT 11:33:57 ON 22 JUN 2004
 D SAVED
 ACT HAR552L18/L

 L5 STR

 L6 D QUE STAT L5
 0 SEA SSS SAM L5 *0 hits for structure (compd 9)*
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 0 SEA SSS SAM L5 *0 hits for structure (compd 9)*

* These are stereoisomers which aren't usually distinguished for RN's

I could not locate compd. 9 in "Inventor's
 work" or by its exact structure.
 See L6 & L7.

Dana, please let me know if you'd
 like for me to go over this.
 Thanks,
 MJ